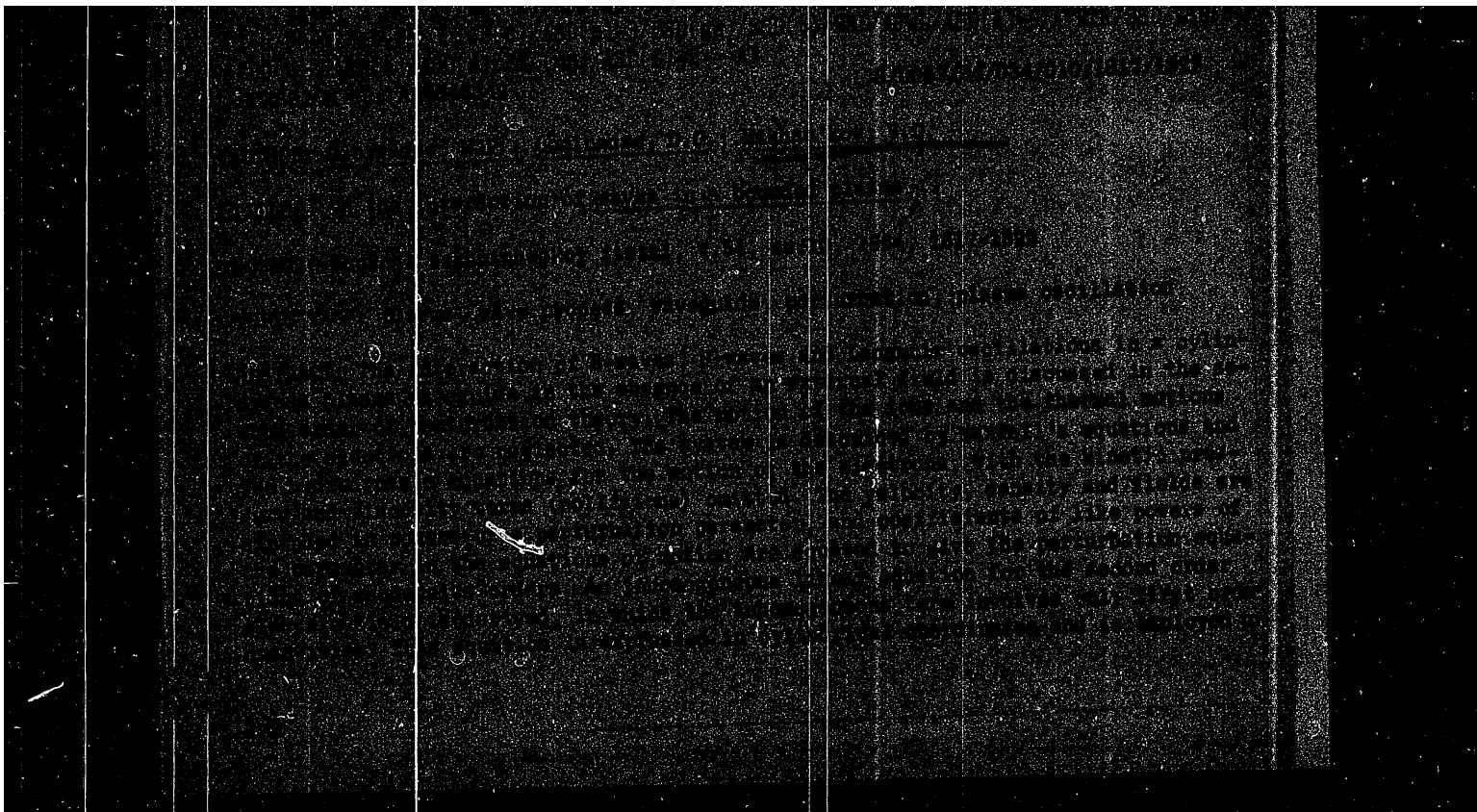


ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6

beam. izv. vys. uchen. zav., 1960-1961

(MIRA 16:12)

1. Ob"yedinennyy institut yadernykh issledovaniy.

On the excitation of electromagnetic...

S/057/62/032/012/012/017
B104/B186

It can be seen that ω is complex, if $B < 0$.

SUBMITTED: February 23, 1962

Card 6/6

On the excitation of electromagnetic...

S/057/62/032/012/012/017
B104/B186

$$\left[k^2 - \frac{\omega^2}{c^2} \left(1 + \sum_i \frac{\omega_{0i}^2}{\Omega_i^2} \right) \right] \left[k^2 \left(1 - \sum_i \frac{\omega_{0i}^2 \beta_i^2}{\Omega_i^2} \right) - \frac{\omega^2}{c^2} + \sum_i \frac{\omega_{0i}^2}{c^2 \gamma_i^2} \right] - \frac{k^2}{c^2} \left(\sum_i \frac{\beta_i \omega_{0i}^2}{\Omega_i} \right)^2 = 0. \quad (9)$$

the solution of which is

$$\omega = \pm \sqrt{\frac{A \pm \sqrt{A^2 - DB}}{D}},$$

$$A = \frac{1}{2} \left[k^2 c^2 + k^2 c^2 D \left(1 - \sum_i \frac{\omega_{0i}^2 \beta_i^2}{\Omega_i^2} \right) + D \sum_i \frac{\omega_{0i}^2}{\gamma_i^2} \right], \quad D = 1 + \sum_i \frac{\omega_{0i}^2}{\Omega_i^2},$$

$$B = k^2 c^2 \left\{ k^2 c^2 \left(1 - \sum_i \frac{\beta_i^2 \omega_{0i}^2}{\Omega_i^2} \right) + \left[\sum_i \frac{\omega_{0i}^2}{\gamma_i^2} - \left(\sum_i \frac{\omega_{0i}^2 \beta_i^2}{\Omega_i^2} \right)^2 \right] \right\}.$$

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X

S/057/62/032/012/012/017
B104/B186

On the excitation of electromagnetic...

are considered. In a coordinate system, where the electrons and the ions satisfy the condition $\sum_s \beta_s \omega_{0s}^2 = 0$, the equation (6) is split into three equations for the range $\omega^2 \gg \Omega_s^2$. One of them is

$$\frac{\omega^2}{c^2} - k^2 \left(1 + \sum_i \frac{\omega_{0i}^2 \beta_i^2}{\omega^2} \right) - \sum_i \frac{\omega_{0i}^2}{v_i^2 c^2} = 0 \quad (7).$$

The solution of (7) is

$$\omega = \pm \sqrt{\frac{k^2 c^2 + \sum_i \frac{\omega_{0i}^2}{v_i^2}}{2}} \pm \frac{1}{2} \sqrt{\left(k^2 c^2 + \sum_i \frac{\omega_{0i}^2}{v_i^2} \right)^2 + 4 k^2 c^2 \sum_i \omega_{0i}^2 \beta_i^2}. \quad (8)$$

From this it appears that if $|\vec{k}|$ is arbitrary and if $\vec{k} \beta_s = 0$, ω always possesses a $\text{Im} \omega > 0$ in this range. In the range $\omega^2 \ll \Omega_s^2$ (6) takes the form

Card 4/6

On the excitation of electromagnetic...

S/057/62/032/012/012/017
B104/B186

holds in the frequency range in which the spatial dispersion can be neglected. Substituting (2) and (4) into (1) gives

$$\left[k^2 \left(1 + \sum_j \frac{\omega_{nj}^2 \beta_j^2}{\omega^2 - \Omega_j^2} \right) - \frac{\omega^2}{c^2} a_z \right] \left[a_1 \left(k^2 - \frac{\omega^2}{c^2} a_1 \right) + \frac{\omega^2}{c^2} g_1^2 \right] - \frac{\omega^2}{c^4} k^2 a_1 g_1^2 + \frac{k^2}{c^2} a_z^2 \left(k^2 - \frac{\omega^2}{c^2} a_1 \right) + 2 \frac{k^2 \omega^2}{c^4} g_1 g_z a_z = 0. \quad (6),$$

if (3) and

$$\left. \begin{aligned} 1 - \sum_j \frac{\omega_{nj}^2}{\omega^2 - \Omega_j^2} &= a_1, \quad 1 - \sum_j \frac{\omega_{nj}^2}{\omega^2 - \Omega_j^2} = a_2, \quad \sum_j u_j \frac{\omega_{nj}^2}{\omega^2 - \Omega_j^2} = -a_n, \\ \sum_j u_j \frac{\omega_{nj}^2 \Omega_j}{\omega(\omega^2 - \Omega_j^2)} &= -g_1, \quad \sum_j \frac{\omega_{nj}^2 \Omega_j}{\omega(\omega^2 - \Omega_j^2)} = -g_n. \end{aligned} \right\} \quad (5)$$

Card 3/6

On the excitation of electromagnetic...

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B104/B186

is substituted into

$$\left| k^2 \delta_{ij} - k_i k_j - \frac{\omega^2}{c^2} \epsilon_{ij}(\omega, \mathbf{k}) \right| = 0, \quad (1),$$

which is the dispersion relation for a plasma wherein the collisions between electrons and ions can be neglected. ω and $\mathbf{k}$ are the frequency and the wave vector of the electromagnetic waves, the index s refers to the kind of particle.

$$\epsilon_{ij}^s(\omega, \mathbf{k}) = \begin{pmatrix} \epsilon_1^s & -ig^s & 0 \\ ig^s & \epsilon_1^s & 0 \\ 0 & 0 & \epsilon_2^s \end{pmatrix}, \quad (4)$$

$$\epsilon_1^s = 1 - \frac{\frac{\omega_{ps}^2}{\gamma_s^2}}{\omega^2 - \Omega_s^2}, \quad g^s = -\frac{\frac{\omega_{ps}^2 \Omega_s}{\gamma_s^2}}{\omega(\omega^2 - \Omega_s^2)}, \quad \epsilon_2^s = 1 - \frac{\frac{\omega_{ps}^2}{\gamma_s^2}}{\omega^2}, \quad \Omega_s = \frac{eB_0}{mc} > 0.$$

44215

S/057/62/032/012/012/017
B104/B186

24.6716

AUTHOR: Makhan'kov, V. G.

TITLE: On the excitation of electromagnetic waves in a plasma with electrons having a directed motion relative to ions

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 12, 1962, 1484-1486

TEXT: The tensor of the dielectric constant

$$\epsilon_{ij}(\omega, k) = \sum_p \gamma_p \alpha_{ip}^* [\epsilon_{ip}^*(\omega', k') - \delta_{ip}] \beta_{pj}^* + \delta_{ij}, \quad (2)$$

$$\left. \begin{aligned} \alpha_{ip}^* &= \delta_{ip} + \frac{u_i u_{ip}}{u_i^2} (\gamma_i - 1) + \frac{u_i k_{ip}}{\omega} \\ \beta_{pj}^* &= \gamma_p \delta_{pj} - \frac{u_p u_{pj}}{u_p^2} (\gamma_p - 1) + \gamma_p \frac{k_p u_{pj}}{\omega} \end{aligned} \right\} \quad (3)$$

$$\gamma_i = \frac{1}{\sqrt{1-\beta_i^2}}, \quad k' = k - \frac{(\gamma_i + 1)^2}{\gamma_i} \frac{\omega}{u_i^2} u_i, \quad \omega' = \gamma_i \omega, \quad \beta_i = \frac{u_i}{c}.$$

Card 1/6

MAKHAN'KOV, V.G.; SARANTSEVA, V.R., tekhn. red.

[Excitation of electromagnetic waves in a plasma in which
electrons have a directional velocity relative to ions] O voz-
buzhdenii elektromagnitnykh voln v plazme, gde elektrony imeiut
napravlenmuiu skorost' otnositel'no ionov. Dubna, Ob"edinennyi
in-t iadernykh issl., 1962. 5 p. (MIRA 15:4)
(Plasma (Ionized gases)) (Electrons)
(Electromagnetic waves)

ALIYEV, F.; MAKHAN'KOV, O.

"Oligocene-Miocene sediments in the southeastern Caucasus and their oil and gas potentials" by S.G. Salev. Reviewed by F.S. Aliev, O.M. Makhan'kov. Geol. nefti i gaza 6 no.7:53-54 J1 '62. (MIRA 15:6)
(Caucasus--Petroleum geology)
(Caucasus--Gas, Natural--Geology)
(Salev, S.G.)

MAKHAN'KOV, O.M.

Role of tectonics in the formation of oil pools of the Neftechala-Padar tectonic zone. Dokl.AN Azerb.SSR 16 no.4:359-362 '60.
(MIRA 13:7)

1. Institut geologii i razrabotki goryuchikh iskopayemykh AN
SSSR. Predstavleno akademikom AN AzerSSR M.M. Aliyevym.
(Neftechala region--Petroleum--Geology)

BOGOTAVIENCHAYA, N.V., kand. tekhn. nauk; BOGRETS, G.H., inzh.;
MAKHANOV, N.V., inzh.; TIMOSHENKO, Z.Z., inzh.

Searching for an effective method of electrolytic polishing of
the inside surface of medium and large diameter pipe. Prodyr.
trub no.12:108-133 '64.

(MIRA 17:11)

ALIKIN, R.I.; GORDIYENKO, P.I.; BESPROZVANNYY, I.G.; ZHIBTSOV, P.P.;
ZOLOTAREV, P.A.; ZUSMANOVSKAYA, L.L.; IBRAGIMOV, K.G.; KOZOREZOV,
M.A.; KOKOREV, A.I.; KUPRIANOV, Yu.V.; KUROCHKA, A.L., kand.
tekhn. nauk; LITVINOVA, L.M.; LOZANOVSKIY, A.L., kand. tekhn.
nauk; MAVDRIKOV, F.I.; MAKHAN'KOV, L.V.; PUKALOV, V.I.; RAYLYAN,
A.P.; SVERDLOV, V.Ya.; SKLYAROV, B.S.; SOLOV'YEV, K.M., kand.
tekhn. nauk; STUKALKIN, A.N.; SUROVIKOV, A.A.; TIKHONOV, N.G.;
SHEPENKO, P.K.; YANOV, V.P.

[VL80 electric locomotive.] Electrovoz VA80. Novocherkassk. Nauchno-
issledovatel'skii institut elektrovostroyeniya. Sbornik nauchnykh
trudov, vol. 5) (MIRA 18:5)

ACC NR: AP7001436

a photoelectric integrator and an optical multiplier based on double modulation of light implemented by electrochemical modulators. To extend their dynamic range, each modulator optical filter contains an independent focusing system. This focusing system consists of a hemispherical lens and a conical light conductor which concentrates the light flux on the working region of the filter. To assure compactness and simplicity of construction optical filters and focusing components form a double-layer matrix board in which the electrochemical modulator electrodes are interconnected in rows and columns. Orig. art. has: 1 figure. [BD]

²⁰
SUB CODE: 09/ SUBM DATE: 12Feb65/ ATD PRESS: 5110

Card 2/2

ACC NR: AP7001436

(A, N)

SOURCE CODE: UR/0413/66/000/021/0157/0158

INVENTOR: Potiyevskiy, O. I.; Makhan'kov, V. Ye.; O Shashkov, L. L.; Borovkov, V. S.

ORG: none

TITLE: Differential optical correlator. Class 42, No. 188147

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 157-158

TOPIC TAGS: signal correlation, optic system, optic method

ABSTRACT: A differential optical correlator is described (see Fig. 1) which determines the correlation coefficient between (for example) two images. It contains

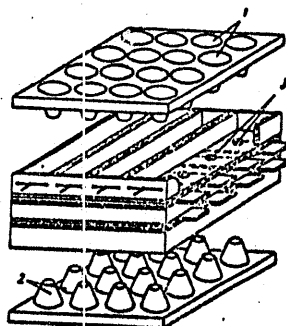


Fig. 1. Optic correlator

1 - Hemispherical lenses; 2 - light conductors;
3 - working filter regions.

Card 1/2

UDC: 681.142.07

ACC NR: AP6033408

layer. The dispersion equation is derived and its roots are discussed in several limiting cases that permit simplification. When the Langmuir frequencies of the plasma and the beam differ greatly, perturbations with frequencies lower than the lower of the two Langmuir frequencies are unstable. When the beam Langmuir frequency is the lower, this instability is aperiodic and its increment is smaller by a factor $\sqrt{2}$ than that of the aperiodic instability of the corresponding unbounded system. When the axial component of the propagation vector is small, the increment of aximutally symmetric surface waves is exponentially small, and such waves propagating only in the aximutal direction do not exist. For transverse waves with transverse wavelength small compared with the radius of the plasma cylinder, the present dispersion equation gives results similar to those previously derived by the author (Radiofizika, VI, 941, 1963) from the usual boundary conditions. This is to be expected because the boundary conditions have little effect on short wavelength oscillations. The author thanks E.A. Perel'shteyn for valuable discussions and O.I. Yarkovoy (deceased) for calling his attention to the applicability of one of the equations employed in the work. Orig. art. has: 29 formulas.

SUB CODE: 20 SUBM DATE: 27Sep65 ORIG. REF: 008

Card 2/2

ACC NR: AP6033408

SOURCE CODE: UR/0057/66/036/010/1752/1757

AUTHOR: Makhana'kov, V.G.

ORG: none

TITLE: On surface waves in a current carrying plasma of finite radius

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1752-1757

TOPIC TAGS: plasma stability, plasma beam interaction, surface wave, relativistic electron, plasma electromagnetic wave

ABSTRACT: The author discusses the stability with respect to axially symmetric surface waves of a uniform quasineutral plasma cylinder of finite radius carrying a uniform beam of the same radius of relativistic electrons. The dielectric tensor is derived from Maxwell's equations and the hydrodynamic equations, linearized for an axially symmetric perturbation propagating both axially and azimuthally. Boundary conditions for the electromagnetic fields at the boundary of the plasma are derived by integrating the curl of the magnetic field across the transition layer at the boundary, the thickness of which is assumed to be small compared with the wavelength of the perturbation. The boundary condition thus obtained for the azimuthal component of the magnetic field differs from the usual one in that it contains a term proportional to the radial component of the electric field. These boundary conditions are valid when the Debye radius is much smaller than the thickness of the transition

Card 1/2

UDC: 533.9

L 18481-63

ACCESSION NR: AP3005496

this quantity. "In conclusion, the author thanks A.A. Rukhadze and V. Veksler for discussions and valuable advice." Orig.art.has: 27 formulas. 2

ASSOCIATION: none

SUBMITTED: 13Jan63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 001

Card 2/2

L 18/81-63 EWT(1)/EWG(k)/BDS/EEC(b)-2/ES(w)-2 AFFTC/ASD/ESD-3/AFWL/SSD/
IJP(C) Pz-4/P1-4/PO-4/Pab-4 AT
ACCESSION NR: AP3005498 S/0057/63/031/008/0897/0900

AUTHOR: Makhan'kov, V.G.

TITLE: Interaction of a neutral relativistic beam of charged particles with a magneto-active plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.8, 1963, 897-900

TOPIC TAGS: plasma, electromagnetic wave, Cerenkov excitation

ABSTRACT: The author discusses electromagnetic waves in a neutral beam of charged particles moving at relativistic velocity parallel to an external magnetic field through a plasma at rest. The dispersion equation (and some of the notation) is taken without further explanation from work of A.A.Rukhadze (ZhTC,32,No.6, 1962). Thermal motion and collisions are neglected. The solutions of the dispersion equation are discussed for waves propagating in the direction of the external magnetic field and for longitudinal waves propagating in other directions. Conditions are found for Cerenkov excitation of the waves. It is pointed out that the Langmuir frequency is invariant under Lorentz transformation, and recent work of T.Neufeld and H.Wright (Phys.Rev.,124, 1, 1961) is criticized for improper transformation of

Card 1/2

MAKHAN'KOV, G.N., kand.tekhn.nauk

Automation of the improved system of terminal glands of LMZ
high-pressure turbines. Elek. sta. 34 no.8:20-22 Ag '63.
(MIRA 16:11)

ILLEGIBLE

MAKHAN'KOV, G.N.

G.N.

BOLOBAN, P.Ye., kandidat tekhnicheskikh nauk; MAKHAN'KOV, kandidat tekhnicheskikh nauk.

^

Steam regulator at the compression end of turbines. Elek.sta.26
no.1:12-14 Ja '55. (MLRA 8:3)
(Steam turbines)

MAKHAN'KOV, G. N.

Cand Tech Sci

Dissertation: "Development and Application
of the Hydrodynamic Regulating System for
High-Pressure Turbines KhTG3."

1/11/50

All-Union Order of the Labor Red Banner Sci
Res Inst of Thermal Engineering imeni
F. E. Dzerzhinskiy

SO Vecheryaya Moskva
Sum 71

GRIBIN, Yu.G.; ISAYEV, A.V.; MAKHAN'KO, Yu.A.; POGROMSKIY, D.V.;
TUROVTSEV, D.M.; KOLEGOV, A.A.

Determining the strength properties of rocks. Fiz.-tekhn. probl.
razrab. pol. iskop. no.4:38-40 '65. (MIRA 19:1)

1. Gornometallurgicheskiy kombinat imeni Zavenyagina, Noril'sk.
Submitted March 2, 1965.

MODESTOV, Yu.A., inzh.; MAKHAN'KO, Yu.A., inzh.

Roof deformations in empty stopes of the Noril'sk coal-bearing region. Izv.vys.ucheb.zav.; gor.zhur. no.3:59-64 '61.

(MIRA 15:4)

1. Rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy Leningradskogo gornogo instituta. 2. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova (for Modestov). 3. Noril'skiy gornometallurgicheskiy kombinat imeni A.P.Zavenyagina (for Makhan'ko).

(Noril'sk region--Coal mines and mining)

MAKHAN'KO, Yu.A., inzh.-marksheyder; SEVER'YANOV, A.N., gornyy inzh.

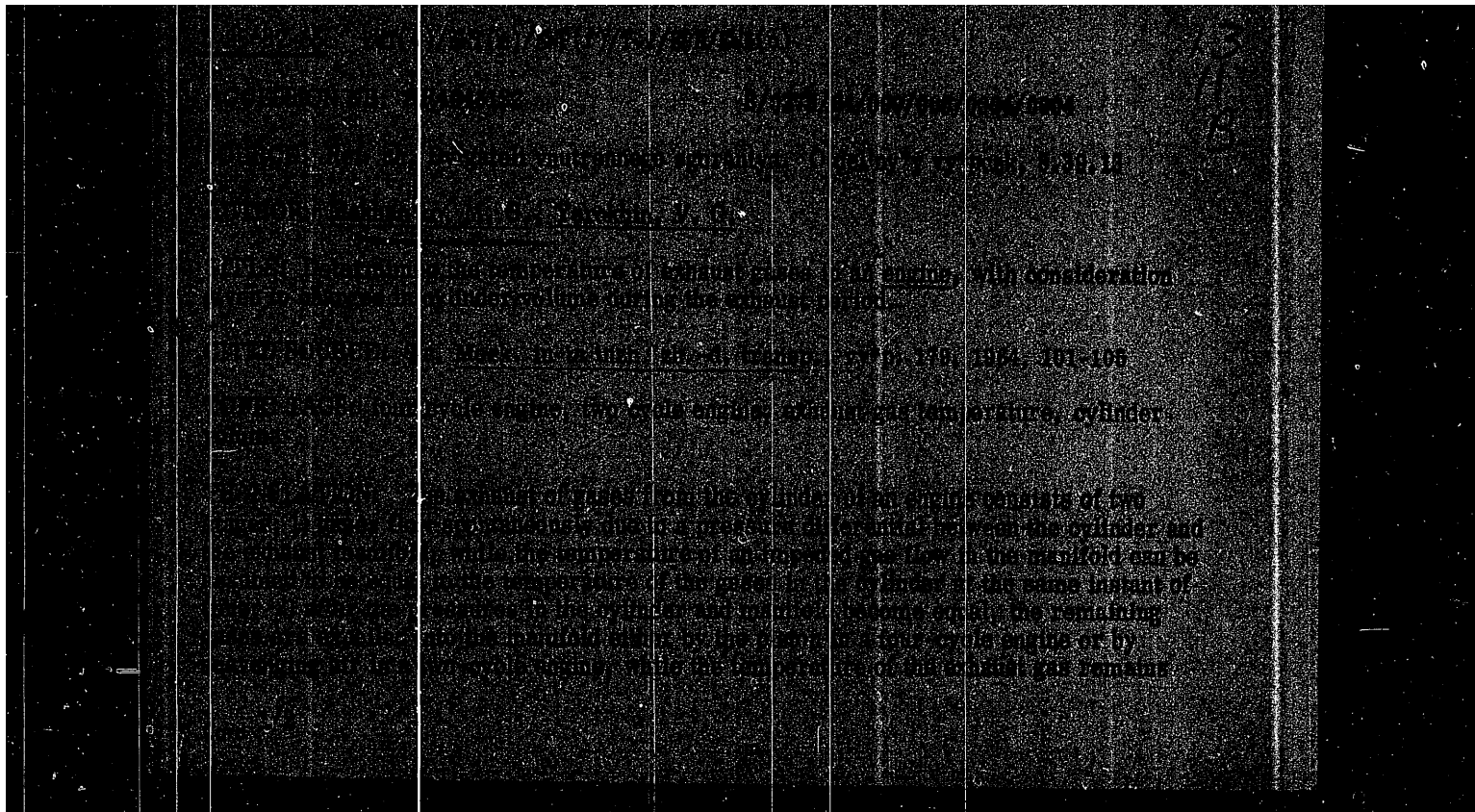
Effect of the correlation of bolt and hole diameters on the
behavior of anchor bolted roofs. Gor.zhur. no.10:31-33 0 '60.
(MIRA 13:9)

1. Noril'skiy gorno-metallurgicheskiy kombinat.
(Mine roof bolting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6

MAKHAN'KO, M.G., dotsent

Similarity of internal combustion engines. Trudy MIIT no. 179:
42-79 '64. (MIRA 17:7)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6

MAKHAN'KO, M.G., dotsent; TRETYAKOV, A.P., dotsent; KRAVETS, Z.I., kand.
tekh. nauk

Analyzing the external coefficient of heat transfer by the corrugated
surface of diesel locomotive coolers. Trudy MFT no.169:81-92 '63.
(MIRA 17:6)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6

KUMSKOV, Viktor Timofeyevich, kand. tekhn. nauk; MAKHAN'KO, Mikhail
Grigor'yevich; BARTOSH, Ye.T., kand. tekhn. nauk, retsenzent;
SMIRNOV, V.A., kand. tekhn. nauk, red.; BOBROV, Ye.N., tekhn.
red.

[Fundamentals of heat engineering] Osnovy teplotekhniki. Mo-
skva, Transzheldorizdat, 1962. 231 p. (MIRA 15:6)
(Heat engineering)

MAKHAN'KO, M.G., kand.tekhn.nauk; KRAVETS, Z.I., inzh.

Studying the gas exchange process in a four-stroke diesel
engine by means of the analogy method. Trudy MIIT no.141:
61-68 '61. (MIRA 15:2)
(Diesel engines--Electromechanical analogies)
(Gases--Thermal properties)

S/262/62/000/012/005/013
1007/1207

AUTHOR: Makhan'ko, M. G

TITLE: Design of exhaust component-parts of combined internal combustion engines with separate gas exhaust

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 42. Silovyye ustanovki, no. 12, 1962, 64, abstract 42.12 376 "Tr Mosk. in-ta inzh. zh.-d. transp.", no. 138, 1961, 66-78

TEXT: A method is described for the approximate design of exhaust components intended for gas exhaust into the first manifold in case of subcritical discharge velocities.

[Abstracter's note: Complete translation.]

Card 1/1

S/262/62/000/015/008/011
1007/1207

AUTHOR: Makhan'ko, M. G.

TITLE: Design of systems for divided exhaust gas stream in gas-turbine supercharged engines

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 15, 1962, 57, abstract 42.15.319 (Tr. Mosk. in-ta inzh. zh.-d. transp., no. 138, 1961, 35-65)

TEXT: Methods are described for designing different variants of exhaust-gas stream division systems intended to improve maximum power of supercharger gas turbines for internal combustion engines of various types.

[Abstracter's note: Complete translation.]

Card 1/1

KRAVETS, Z.I., inzh.; MAKHAN'KO, M.G., kand.tekhn.nauk

Analytical study of the scavenging and filling of a four-cycle
gas turbine supercharged engine. Trudy MIIT no.130:128-135
'60. (MIRA 14:3)

(Diesel engines)

MAKHAN'KO, M.G., kand. tekhn. nauk, dots.

Mechanical and thermal similarity of internal-combustion
engines. Trudy MIIT no.112:119-129 '59. (MIRA 13:2)
(Gas and oil engines)

MAKHAN'KO, M.G., kand. tekhn. nauk, dots.

Thermodynamic cycles of combined internal-combustion engines with
divided gas outlet. Trudy MIIT no.112:85-118 '59.

(MIRA 13:2)

(Gas and oil engines) (Thermodynamics)

MAKHAN'KO, M.G.; PIVOVAROV, L.A.

Methods of laboratory testing of diesel locomotive air filters.
Trudy MIIT no.110:48-59 '59. (MIRA 13:4)
(Diesel locomotives--Equipment and supplies)
(Air filters--Testing)

MAKHAN'KOV, O. M.

Geological structure of the lower Kura Lowland and formation of
oil and gas pools. Geol. nefiti 2 no.11:13-19 N '58. (MIRA 11:12)

1. Institut nefiti AN SSSR.
(Kura Lowland--Petroleum geology)
(Kura Lowland--Gas, Natural--Geology)

MAKHAN'KO, M. G.

KONAKOV, Petr Kuz'mich, professor; MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk, redaktor; BOBROVA, Ye.M., tekhnicheskii redaktor

[Theoretical principles of heat engineering] Teoreticheskie osnovy
teplotekhniki. Moskva, Gos.transp.shel-dor.izd-vo, 1957. 298 p.
(Heat engineering) (MLRA 10:9)

MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk; TAREYEV, V.M., professor;
TSHELINICHEV, P.A.; KHITROV, P.A., tekhnicheskiiy redaktor.

Conversion of internal combustion engines to gaseous fuels. Trudy
TSNII MPS no.74:3-96 '54. (MLRA 8:5)
(Gas and oil engines)

KONAKOV, P.K., professor, redaktor; ~~MAKHAN'KO, M.G.~~, kandidat tekhnicheskikh nauk, redaktor; YUDZIN, D.M., tekhnicheskii redaktor

[Ejector-type smokestacks on locomotives] Izhetsionnye dymovytiazhnye ustanovki parovozov. Moskva, Gos. transp. zhel-dor. izd-vo, 1954.
195 p. (MLRA 8:3)

(Locomotives--Design)

MAKHAN'KO, M. G.

Cand Tech Sci

Dissertation: "Convective Heat Exchange in
Pipes During Motion of Gases with a Suspended
Solid Phase."

22/3/50

Moscow Order of the Labor Red Banner Electro-
mechanical Inst of Railroad Engineers imeni
F. E. Dzerzhinskiy

SO Vecheryaya Moskva
Sum 71

ACC NR: AR6013652

SOURCE CODE: UR/0058/65/000/010/E007/E007

AUTHOR: Nozdrev, V. F.; Makhan'ko, I. G.; Malyavin, I. G.

TITLE: Study of the temperature dependence of the shear and second viscosities of binary mixtures of benzene and methyl alcohol over a wide temperature range including the critical region

SOURCE: Ref. zh. Fizika, Abs. 10E42

REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 23-26

TOPIC TAGS: fluid viscosity, fluid property, fluid friction, ultrasonic absorption, temperature dependence, benzene, methyl alcohol

TRANSLATION: An experimental study was made of the shear and second viscosities of a binary mixture at various temperatures. The shear viscosity coefficient was measured directly while the second viscosity coefficient was calculated from the ultrasonic absorption coefficient in a liquid in terms of the shear viscosity coefficient. A characteristic of the second viscosity was observed in the critical temperature region. It is hypothesized that this is due to the decay of associated complexes close to the critical point.

SUB CODE: 20

Card 1/1

ACC NR: AR6013654

SOURCE CODE: UR/0058/65/000/010/E007/E007

AUTHOR: Makhan'ko, I. G.

TITLE: Methods for measuring absorption and a calculation of the second viscosity of binary mixtures of benzene and methyl alcohol along the line of saturation

SOURCE: Ref. zh. Fizika, Abs. 10E49

REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964, 153-157

TOPIC TAGS: fluid viscosity, fluid property, fluid friction, ultrasonic absorption

TRANSLATION: Ultrasonic attenuation in binary mixtures of benzene and methyl alcohol with 16.7 and 60% (by weight) benzene and the saturation line was studied experimentally at various temperatures, including the neighborhood of the critical point. The shear viscosity of the mixtures was measured. The apparatus and measurement techniques are described in detail. The data were used to find the temperature dependence of the second viscosity coefficient. N. Kuznetsov.

SUB CODE: 20

Card 1/1

MAKHAN'KO, I.G.; NOZDREV, V.F.

Ultrasound absorption in the binary mixture benzene - methyl
alcohol along the saturation line including the critical region.
Akust. zhur. 10 no.2:249-251 '64. (MIRA 17:6)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K.
Krupskoy.

BIRYULIN, I., arkhitektor; MAKHAN'KO, B., arkhitektor; MAGIDIN, V., arkhitektor

Planning and building farmstead centers for state farms in
the Virgin Territory. Sel'.stroi. 16 no.2:24-26 F '62.
(MIRA 15:12)

(Virgin Territory--State farms)
(Virgin Territory--State planning)

MAKHAN'KO, B.

Using aerial photography layouts and model outline drawings in design. Sel'. stroi. 16 no.1:14 Ja '62. (MIRA 16:1)

1. Glavnyy arkhitektorskiy proyekt masterskoy general'nykh planov
Rosgiprosel'khozstroya.

(City planning)

BIRYULIN, I., arkhitektor; MAKHAN'KO, B., arkhitektor; DMITRIYEV, V.
inzh.; KOROBV, S., agronom-ekonomist

Method of combined planning to be used in rural areas. Sel'.
stroil. 14 no.12:22-24 D '59. (MIRA 13:4)
(City planning)

KOROBV, S., agronoma-ekonomist; BIRYULIN, I., arkhitektor; KONDUKHOV, A.,
arkhitektor; MAXHAN'KO, B., arkhitektor; SEDOV, V., inzh.-zemleu-
stroitel'.

Regional planning. Sel'. stroi. 14 no.11:17-19 N '59 (MIRA 13:3)
(Regional planning)

NAGORNIY, V.T.; MAKHAN'KO, A.V.; KAREL'SKAYA, V.F.; TIMCHENKO, I.A.

Feeding fattening pigs with crude sugar beets. Veterinariia
39 no.10:73-74 0 '62. (MIRA 1626)

1. Belotserkovskiy sel'skokhozyaystvennyy institut.
(Sugar beets)
(Swine---Feeding and feeds)

MAKHAN'KO, A.V., Doc Vet Sci -- (diss) "Secretory
and incretory function of the pancreas in cattle
in various states of the central nervous system."
Mos, 1958, 30 pp (Mos Vet Acad of Min of Agr USSR)
140 copies (KL, 28-58, 108)

USSR/Human and Animal Physiology. Digestion.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27031.

the first hour the secretion decreased somewhat, and then against a background of general excitation and increased duodenal peristalsis it increased sharply and for an hour and a half exceeded the initial level by 3 to 4 times. When excitation gave way to depression and signs of hypoglycemic coma appeared, secretion fell off almost to zero. In this period 80 grams of glucose (40% solution) was introduced into the duodenum (through the fistula) and carbohydrates were given (beetroot concentrate). The heifers rapidly returned to a normal condition, and the secretion returned to the initial level or even exceeded it. The activity of trypsin, amylase and lipase gradually diminished, especially during

Card : 2/3

A.V. MAKHANKO

USSR/Human and Animal Physiology. Digestion.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27031.

Author : A.V. Makhank'o
Inst : The Moscow Veterinary Academy
Title : The Change in the Exocrine Secretion of the Pancreas
and in the Motor Activity of the Duodenum of Cattle
When Insulin is Injected.

Orig Pub: Tr. Mosk. vet. akad., 1956, 15, 349-372.

Abstract: Three heifers with permanent fistulas of the pancreatic duct were injected subcutaneously following one day without food with 150 to 300 I.U. of insulin, and for a period of 4 to 5 hours periodic determinations were made of the amount of pancreatic juice secreted, and simultaneous recordings were made of the peristaltic movements of the duodenum and of respiration. For

Card : 1/3

49

USSR/Human and Animal Physiology. Digestion.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27028.

A

the pancreatic juice, record the number of drops of the juice, introduce secretagogue substances and record the movements of an isolated segment of the duodenum. Through the plug of the other cannula one can introduce different solutions into the duodenum and obtain the duodenal chyme; this enables one to determine the times of evacuation of food from the stomach.

Card : 2/2

A.V. MAKHANKO

V

USSR/Human and Animal Physiology. Digestion.

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27028.

Author : A.V. Makhan'ko.

Inst : The Byelotserkov Agricultural Institute.

Title : A Refinement of the Fistular Technique for Working
With the Pancreas.

Orig Pub: Nauchn. zap. Belotserkovsk. s.-kh. in-t, 1956, 4,
217-221.

Abstract: Zhilov's method of creating fistulas (The Digestive Physiology of Farm Animals, 1935) has been modified for obtaining simultaneously the secretion of the pancreas and the contents of the duodenum. A system of two cannulas of a new construction is suggested, connected together by a bridge of rubber tubing. Through the plug of one cannula one can obtained

Card : 1/2

47

USSR / Human and Animal Physiology. Blood

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41186.

Author : ~~Makhan'ko, A. V.~~

Inst : Belaya Tserkov Agricultural Institute.

Title : Blood Groups in Simmenthal and Mixed Breed Cattle.

Orig Pub: Nauchn. zap. belotserkovsk. s.-kh. in-t, 1956, 4,
109-112.

Abstract: With the aid of the isoagglutination reaction, three blood groups were established in adult cattle: I (Co) II (Ao) III (o α). In mixed breed cattle, (74 heads) groups II and III represented 58.11%, in the Simmenthal breed (210 heads) -32.86%. In view of the fact that group II containing agglutininogen A represents 48.65% of mixed breed cattle, the possibility of blood compatibility is greater than in the Simmenthal breed. Transfusions of

Card 1/2

46

PCHELKIN, Yu.N.; MAKHAN'KO, A.A.; CHUPRINA, V.P.

Electrically heated and lighted greenhouse for growing seedlings
without natural light. Sbor. nauch.-tekh. inform. po elektr.
sel'khoz. no.16/17:58-59 '64. (MIRA 18:11)

MAKHANIK, Kh.Ya. (Orenburg, Telegrafnyy per., 12, kv. 19)

Sources of innervation of the lymph nodes of the free part of the upper extremity of fetuses, newborn infants, and infants.

Arkh. anat. gist. i embr. 40 no. 1:83-90 Ja '61. (MIRA 14:2)

1. Kafedra normal'noy anatomii (zav. - prof. I.M. Ayzenshteyn)
Orenburgskogo meditsinskogo instituta.

(LYMPHATICS-INNervation)

MAKHANIK, Kh. Ya.

Sources of innervation of lymph nodes of the axillary area in man.
Ark. anat. gist. i embr. 36 no.3:60-67 Mr '59. (MIRA 12:7)

1. Kafedra normal'noy anatomii (zav. - prof. I.I. Kositsyn) Permskogo
meditsinskogo instituta i kafedra normal'noy anatomii (zav. - prof.
I.A. Ayzenshteyn) Orenburgskogo meditsinskogo instituta.

(LYMPH NODES, innerv.

axillary, sources in man (Rus))

MAKHANIK, Kh. Ya., kand. med. nauk.

Sources of innervation of prelaryngeal, laryngotracheal and paratracheal lymph nodes in embryos and young children. Vest. otorin. 21 no.2:79-83
Mr-Apr '59. (MIRA 12:4)

1. Iz kafedry normal'noy anatomii (zav. - prof. I.M. Ayzenshteyn)
Orenburgskogo meditsinskogo instituta.

(LYMPH NODES, innervation,
sources of innervation in prelaryngeal, laryngotracheal &
paratracheal nodes in embryos & inf. (Rus))

MAKHANIK, Kh. Ya.

MAKHANIK, Kh. Ya.: "Innervation of the lymphatic nodes of the axilla." Molotov State Medical Inst. Molotov, 1956. (Dissertation for the Degree of Medical Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

POKORNYI, I., inzh.; MARESH, E., inzh.; MAKHANICHEK, A., inzh.

Using hydrogenated fats for the preparation of a cacao butter substitute. Masl.-zhir.prom. 24 no.11:17-19 '58.

(MIRA 12:1)

1. Issledovatel'skiy institut rastitel'nykh masel i zhirov
Usti-na-Labe, Strekov, Chekhoslovakiya.

(Oils and fats)

(Cacao butter)

L 43723-66

ACC NR: AP6030421

2
backing plate and clamped in a special fixture with a pressure of 256 kg per each clamp, i.e., per 4—5 kg/cm² of weld. The edges of the clamps are located 13 mm from the joint, which reduces the hot cracking because at the temperature of hot cracking the weld is under compression. The design strength of welds was tested on high-pressure vessels (211 mm inside diameter and 600 mm long). The welds were stress relieved at 650C and found satisfactory. Orig. art. has: 1 figure. [TD]

SUB CODE: 11, 13/ SUBM DATE: none/ ATD PRESS: 5074

Card 2/2 hs

I 43723-66 EWT(m)/EWP(k)/T/EWP(v)/EWP(t)/ETI IJP(c) HN/MJW/HM/JD
 ACC NR: AP6030421 (N) SOURCE CODE: UR/0193/66/000/007/0005/0006

AUTHOR: Gedovius, I. A.; Makhanov, V. I.; Nikonov, V. I.; Kireyeva, G. I.

ORG: none

TITLE: Carbon dioxide-shielded arc welding of steel

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 7, 1966, 5-6

TOPIC TAGS: carbon dioxide, arc welding, shielded arc welding, super-strength steel welding, super strength steel / 28Kh3SNMVFA steel

ABSTRACT: A method of carbon dioxide-shielded arc welding of 28Kh3SNMVFA super-strength steel sheets 2.8 mm thick has been developed and introduced in industry. The method employs a welder equipped with a resistor which makes it possible to adjust the current with an accuracy of ± 2.5 amp. To ensure a satisfactory ductility and adequate strength of the welds, VL-1D (TU582-61) electrode wire 2 mm in diameter is used. At a carbon equivalent of 0.76—0.79 the steel requires no preheating, but at an equivalent of 0.8—0.81, preheating to 100—150C is recommended. Sheets should be butted as close as possible (the gap should not exceed 0.2 mm on a maximum length of 10% of the total weld length) on Kh18N9T steel

Card 1/2

UDC: 621.791.753.9—52

L 23456-66 EMT(d)/EMT(m)/EMP(v)/T/EMP(t)/EMP(k)/EMP(h) LIP(c) JD/HU 4C

ACC NR: AP6006332 (N) SOURCE CODE: UR/0413/66/000/002/0056/0057 4/1 23

AUTHOR: Yakovlev, V. A.; Dubrovskiy, S. M.; Lykova, Z. V.; Berman, A. S.;
Lyubavskiy, K. V.; Antonov, Ye. G.; Smirnov, A. G.; Makhanov, V. I.; Vesenko, N. V.

ORG: none

TITLE: Device for automatic welding of hardening steels. Class 21, No. 177981

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 56-57

TOPIC TAGS: automatic welding, induction welding, steel

ABSTRACT: An Author Certificate has been issued for a device for automatic welding of hardening steels. The device consists of an automatic welder and an inductor. To make it possible to control the heating rate, the welder and conductor have a movable interconnection which can be adjusted by a screw or a rod. [LD]

SUB CODE: 13/ SUBM DATE: 31Jan63/ ORIG REF: none/ OTH REF: none/

Card 1/1 VLR

UDC: 621.791.037:621.078.012

MAKHANEV, V. I.

USSR/Metals - Welding

Aug 50

"Welding Under Flux of Pieces Intricate in Shape," Ya. A. Zav'yakov Engr, M. S. Khatsko,
V. I. Makhanev

"Avtogen Delo" No 8, pp 15-17

Discusses methods for automatic welding under flux of pieces with complicated shapes, e.g., elliptical. Recommends evolution of such shapes into planes with subsequent rolling of these planes after welding into requires space figures. This permits application of welding methods for straight joints on horizontal plane, and thus eliminates designing of bulky and complicated equipment since universal device for welding flat sheets may be used.

PA 167T69

GREKOV, P.N.; GRUZINOV, V.K.; MAKHANEK, N.G.

Changes of friction forces in a layer of granular materials
depending on the rate of gas flow through it. Izv. vys. ucheb.
zav.; chern. met. 6 no.6:32-34 '63. (MIRA 16:8)

1. Ural'skiy politekhnicheskii institut.
(Granular materials) (Gas flow)

MAKHANEK, N.G.

(Calculating the thermal balance in blast furnace smelting. Izv.
vys.ucheb.zav.; Chernomet. 5 no.11:30-36 '62. (MIRA 15:12)

1. Ural'skiy politekhnicheskiy institut.
(Blast furnaces) (Heat—Transmission)

MAKHANEK, N.G.

Changes in the correlation between flows of gas and charge
materials and inside each of the flows. Izv. vys. ucheb. zav.;
chern. met. 5 no.8:29-34 '62. (MIRA 15:9)

1. Ural'skiy politekhnicheskiy institut.
(Blast furnaces) (Gas flow)

MAKHANEK, N.G.

Effect of reduced specific coke consumption on the amount of blast
and flue gas. Izv.vys.ucheb.zav.; chern.met. 5 no.6:21-25 '62.
(MIRA 15:7)

1. Ural'skiy politekhnicheskii institut.
(Blast furnaces--Fuel consumption)

MAKHANEK, N.G.; KUKARKIN, A.S.

High output blast furnace operations. Izv. vys. ucheb. zav.; chern.
met. 5 no.5:37-43 '62. (MIRA 15:6)

1. Ural'skiy politekhnicheskiy institut.
(Blast furnaces)

MAKHANEK, N.G.

Characteristics of heat exchange in blast furnaces.
Trudy Ural. politekh. inst. no. 105:90-106 '60. (MIRA 14:3)
(Blast furnaces) (Heat--transmission)

MAKHANEK, N.G.

Heat exchange processes in blast furnaces. Trudy Ural. politekh.
inst. no.105:78-89 '60. (MIRA 14:3)
(Blast furnaces) (Heat--Transmission)

MAKHANEK, N.G., dotsent.

Calculating coke consumption in cast iron production. Stal' 15
no. 1:19-23 Ja '55. (MIRA 8:5)

1. Ural'skiy politekhnicheskii institut.
(Cast iron--Metallurgy) (Coke)

ILLEGIBLE

Apr 1948

UssR/Metals
Slag, Blast Furnace
Furnaces, Metallurgical

"Selection of Slag Composition for Blast Furnaces of
the Novo-Tagil'skiy Plant," N. G. Makhanev, Candidate
Tech Sci, Ural Inst of Ferrous Metals, 12 pp

"Stal'" No 4

Blast furnaces of the Novo-Tagil'skiy Metallurgical
Plant process ores yielding tough, high-alumina slags.
This hampers the descent of the materials. To reduce
the concentration of Al_2O_3 it is expedient to add
hearth cinder and siliceous Alapayevsk ore to the
furnace charge. Steady descent of the charge may
then be facilitated by creating zone of constant
acidification by means of 16 tuyeres instead of 12.

MAKHANEV, N. G.

64769

MAKHANEK, M. Ye.

KLJUSZOV, I.A. [Klyusov, I.A.] (Szovjetunio); SZAFARJANC, A.R. [Safaryants, A.R.] (Szovjetunio); BORISZ, B.P. [Boris, B.P.] (Szovjetunio);
MAHANAK, M.E. [Makhanek, M.Ye.] (Szovjetunio); HOROS, B.I. (Szovjetunio);
BELJAJEV, Sz.F. [Belyayev, S.F.] (Szovjetunio); ALEKSZEJEV, V.N.
[Aleksyev, V.N.] (Szovjetunio)

Application of rotor series. Technika 6 no.12:2-3 D '62.

MAKHANIK, M.Ye., inzh.; KHOROSH, B.I.

New automatic lines. Mekh. i avtom. proizvod. 16 no. 6-5-9 Je '62.
(MIRA 15:6)

(Machine tools) (Automation)

KALACHEV, M.I., kand.tekhn.nauk; MAKHANEK, M.Ye., inzh.

Die forging of rings for universal-joint bearings. Mash.Bel.
no.6:78-86 '59. (MIRA 13:6)

(Forging)

TIUNOV, V.F., prof., red.; MAKHANEK, K.S., dotsent, red.; NIKOLAYEV,
S.F., assistant, red.; SANDLER, I.S., dotsent, red.; CHAZOV,
B.A., dotsent, red.; GRAYEVSKIY, A.M., red.izd-va; NEUDAKINA,
N.G., tekhn.red.

[Perm Province; nature, history, economy, culture] Permskaya
oblast'; priroda, istoriya, ekonomika, kul'tura. Red.kollegiya
K.S.Makhanek i dr. Perm', Permskoe knizhnoe izd-vo, 1959.
405 p. (MIRA 13:2)

(Perm Province--Economic conditions)

BOGACHEV, I.N.; MAKHANEK, G.V.

Thermokinetics of graphite formation in gray cast iron. Lit.
proizv. no.2:18-20 F '63. (MIRA 16:3)
(Cast iron--Metallography) (Crystallization)

MAKHANEK, F. YE

36269

Opyt Raboty sovkhoza "Vedrich". Izvestiya akad nauk BSSR, 1949, No. 5.
s. 149-51

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

L 06252-67

ACC NR: AP6031956

excitation in the presence of degeneracy. Orig. art. has: 17 formulas.

SUB CODE: 20/ SUBM DATE: 09Mar65/ ORIG REF: 003/ OTH REF: 006

Card

2/2 *eg/lu*

L 06252-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/JG/AT
 ACC NR: AF6031956 SOURCE CODE: UR/0051/66/021/003/0313/0318

AUTHOR: Makhanek, A. G.; Korol'kov, V. S.

ORG: none

TITLE: Crystal field screening effects for $4f^x$ shells of rare earth ions and nuclear moments

SOURCE: Optika i spektroskopiya, v. 21, no. 3, 1966, 313-318

TOPIC TAGS: electron² shell, rare earth, nuclear magnetic moment

ABSTRACT: In calculating the interactions of an electric crystal field with unfilled shells such as the $4f^x$ shells of rare earth ions and multipole nuclear moments, it is necessary to consider the influence of screening due to the distortion of the filled shells. The purpose of the paper was to obtain the most general expressions possible for calculating such screening. Specific calculations applying to crystalline compounds of rare earth elements are performed. For the radial type of excitation, the constants of quadrupole antiscreening are calculated for the case of penetration of the outer charge into closed shells (e. g., in the case of polarization of closed shells by valence electrons). The angular type of excitation is also discussed. It is shown that by solving the perturbed Schrödinger equation in quadratures, one can obtain general expressions for screening constants of potentials of an arbitrary multipole order in the case of radial-type excitation, and in the case of angular-type

Card 1/2

UDC: 539.182+548.0

antiscreening of nuclear ...

S/O31/63/014/004/001/026
2039/E420

where ϕ is the ionization energy. These values are used for the interpretation of nuclear quadrupole interaction constants in polar molecules and to determine the relaxation time in ionic crystals. Values of the screening constant are calculated for ions of the alkali metals and the halogens using the Thomas-Fermi model. There are 1 figure and 8 tables.

SUBMITTED April 5, 1962

Card 2/2

S/051/63/014/004/001/026
E039/B420

AUTHOR: Makhanek, A.G.
 TITLE: Antiscreening of nuclear quadrupole moments
 PERIODICAL: Optika i spektroskopiya, v.14, no.4, 1963, 449-456.
 TEXT: An analytical solution of Schrödinger's equation is obtained and, on the basis of the general formulas, values of Sternheimer's antiscreening factor $Y_{\infty}(nl \rightarrow l)$ are calculated for a series of ions. The possibility of using experimental values of the dipole polarizability of ions and semi-empirical values of the parameter $\langle r^{-3} \rangle$ for calculating values of $Y_{\infty}(nl \rightarrow l)$ is shown. $\langle r^{-3} \rangle$ varies from 9.80 for A to 21.9 for Xe. The equations giving the value of the antiscreening factor are

$$\left. \begin{aligned} Y_{\infty}(2p \rightarrow p) &= -\frac{268}{25(Z-a)}; & Y_{\infty}(3p \rightarrow p) &= -\frac{1008}{25(Z-a)}; \\ Y_{\infty}(4p \rightarrow p) &= -\frac{2468}{25(Z-a)}; & Y_{\infty}(5p \rightarrow p) &= -\frac{4888}{25(Z-a)}; \\ Y_{\infty}(3d \rightarrow d) &= -\frac{272}{35(Z-a)}; & Y_{\infty}(4d \rightarrow d) &= -\frac{2228}{105(Z-a)}. \end{aligned} \right\} \quad (19)$$

Card 1/2

MAKHANEK, A.G.

Nuclear quadrupole bond in polar molecules. Dokl. AN BSSR 6
no.7:427-431 J1 '62. (MIRA 16:8)

1. Institut fiziki AN BSSR. Predstavleno akademikom AN BSSR
M.A. Yel'yashevichem.
(Molecules) (Quantum theory)

KOROL'KOV, V.S.; MAKHANEK, A.G.

Gradients of electric fields set up by electrons at the
sites of atomic nuclei. Opt. i. spektr. 12 no.2:163-170
F '62. (MIRA 15:2)

(Electric fields)

MAKHANEK, A.G.

Effect of vibrations on the constants of hyperfine structure.
Opt. i spektr. 11 no. 1:12-15 J1 '61. (MIRA 14:10)
(Molecular spectra) (Vibration)

MAKHANEK, A.G.

Note on the calculation of the field gradient at the point of
location of the deuteron nucleus of the HD molecule. Dokl. AN
BSSR 5 no.10:430-432 0 '61. (MIRA 15:3)

1. Institut fiziki AN BSSR.

(Deuterons)

KOKURICHEV, P. I. (Professor), LAMKIN, S. I. (Assistant Professor) MIKHAILOV, N. P.
and MAKHANCHENYEV, (Veterinary Surgeons, Leningrad Veterinary and Buryat Agricultural
Institutes)

"Utilization of sodium selenite for prophylaxis and treatment of the white
muscle disease of lambs"
Veterinariya, vol. 39, no. 6, June 1962 pp. 50

KOKURICHEV, P.I., prof.; LAMKIN, S.I., dotsent; MIKHAYLOV, N.ⁿ., veteri-
narnyy vrach; MAKHANCHEYEV, K.V., veterinarnyy vrach

Use of sodium selenite in the prophylaxis and therapy of white
muscle disease in lambs. Veterinariia 39 no.6:50-51 Je '62
(MIRA 18:1)

1. Leningradskiy veterinarnyy institut i Buryatskiy sel'sko-
khozyaystvennyy institut.

The Volcanic Formations in Belorussia (Cont.)

15-1957-10-13913

in the region of the Pripyatskiy downwarp. A narrow band of magnetic anomalies with values from +100 to +700 gammas, extending from Chernigov through Gomel' to Glusssk, outlines the distribution of Upper Devonian formations with a basic composition of the Chernigov type. The volcanic eruptions in the Pripyatskiy downwarp and in its border zones are associated with the principal stage in the development of this Upper Devonian structure.

Card 2/2

S. P. Bryzgalina

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, 15-1957-10-13913
p 78 (USSR)

AUTHORS: Bandarenka, B. V., Makhanach, A. S.

TITLE: The Volcanic Formations in Belorussia . (O vulkanicheskikh obrazovaniyakh na territorii Belorussia)

PERIODICAL: Izv. AN BSSR, ser. fiz-tekhn., 1956, Nr 4, pp 23-37 (in Belorussian)

ABSTRACT:

Volcanic activity in Belorussia occurred in pre-Paleozoic, early Paleozoic, and Devonian times. The pre-Paleozoic volcanics, which occur in the region of Glusssk, are quartz porphyries similar to those in the Ukrainskiy (Ukrainian) crystalline complex. The early Paleozoic volcanics, widely distributed in the southwestern part of Belorussia and in Volyn', are composed predominantly of basalts, dolerites, spilites, and volcanic tuffs. Geophysical investigations show that these rocks produce magnetic anomalies with intensities of +300 to +600 gammas. On the basis of geophysical data, it is proposed that Devonian volcanics are present

Card 1/2

MAKHAMOVA, M.M., kand. med. nauk

Blood picture following total resection of the stomach. Med.
zhur. Uzb. no.9:46-50 S '62. (MIRA 17:2)

1. Iz kafedry kliniko-laboratornoy diagnostiki i parazitarnykh
bolezney Tashkentskogo gosudarstvennogo instituta usovershenst-
vovaniya vrachey (rektor - dotsent M.A. Mirzamukhamedov).

MAKHAMOV, G.M.; LATIPOV, A.

Effect of natural goitrogenous substances on the hormone formation
in the thyroid gland of rats. Uzb. biol. zhur. 9 no.5:10-13 '65.
(MIRA 18:10)

1. Uzbekskiy institut krayevoy meditsiny AMN SSSR.

~~APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6~~

YESENOV, Sh. & MEKHAMBETOV, Kh.

Sh. MUKHAMBETOV, Kn.
Oil and gas potentials and the quality of the oil and gas of the
Uzen' oil field. Izv. AN Kazakh. SSR. Ser. geol. 22 no.4:3-10
MIRA 18:9
Jan '65.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500014-6